



Tissue Banks and Pathology Tools Breakout Session Summary Notes
caBIG Kickoff Meeting
February 19-20, 2004

This summary provides an overview of the key agreements in principle, discussion points, priorities and possible products for the Tissue Banks and Pathology Tools Workspace - as discussed during the caBIG Kickoff Meeting breakout sessions. Further information on the Tissue Banks and Pathology Tools Workspace activities will continue to be made available as the caBIG initiative moves forward. Please feel free to comment on these notes. If you are a registered caBIG participant and you have any comments or questions, please post them to the caBIG Forum at the following URL: <http://ncicbforums.nci.nih.gov/cabigforum>. If you are not a registered caBIG participant, please send any comments to adamsm@mail.nih.gov

Overview

Participants in the Tissue Banks and Pathology Tools Workspace convened to discuss the implementation and integration of tissue bank and pathology tools and infrastructure components in an effort to facilitate information sharing by the cancer research community.

Agreements in Principle

After two days of deliberations, members of the Tissue Banks and Pathology Tools Workspace determined that to achieve caBIG operability for the workspace tools or components, the following elements must be in place:

- Shared Policies and Guidelines (e.g., IRB, Privacy Documents, Material Transfer Agreements.)
- Common Data Elements (CDE) and common terminology
- Open Source Tools and Application Programming Interfaces (APIs)
- Shared and accessible data
- Support from other Workspaces (Cross Cutting and Domain)
- Training and documentation

List of Priorities and Deliverables

Based on Workspace participant discussions regarding the needs of the research community, the group identified high-level functional requirements and prepared a draft prioritization matrix. These discussions identified the following functional areas that would provide the basis for subsequent activities and possible deliverables:

- Policy/Program Related Issues
- General System Requirements
- Quality Control
- Tissue Resource System
- Pathology Tools
- Common Data Elements
- Patient/Clinical/Population Information
- Sample Array Tools
- Micro-dissection Tools



Identified priorities and deliverables are noted below according to the agreed upon functional areas. (Priorities were assigned based on a scale of one (1) to five (5) with one (1) being of significant importance.)

- **Policy/Program Related**
 - IRB Privacy Board Guidance (Priority 1)
 - Support/Training/Documentation (Priority 1)
 - Access and Material Transfer Policies (Priority 4)
- **General System Requirements** (All Priority 1)
 - Common Data Elements (CDEs) and Terminology
 - Modularized and Web Accessible Software Tools
 - Software Development Toolkits (SDKs) and APIs
 - Interface Specifications
 - Data Mapping Tools
 - Transaction Auditing
 - System Backup/Recovery
 - Data Storage
 - Security
- **Quality Control**
 - Quality of the Sample (Priority 1)
 - CDEs and Quality Indicators (Priority 1)
 - Data Validation (Priority 4)
 - User Survey (Priority 3)
- **Tissue Resource System**
 - Specimen Tracking (Priority 1)
 - Includes Investigator, Tissue Source, and Shipping Information
 - Tissue Processing (Priority 1)
 - Inter-site Communication (Priority 1)
 - Multi-Dimensional Specimen Annotation (Priority 3)
 - Support for Billing Information (Priority 4)
 - Support for Tissue Imaging (Priority 4)
- **Pathology Tools**
 - UMLS Coding of Free Text (Priority 2)
 - De-identification Tools (Priority 2)
 - Image Analysis/Whole Slide Imaging (Priority 5)
 - Pathway Histological Analysis (Priority 5)
- **Common Data Elements (CDEs)** (All Priority 1)
 - Leverage existing CDE Sources (e.g. WHO, SPORES, EDRN, etc.)
 - Identify Minimal Required Information (Subset of CDEs)
 - Register and Maintain CDEs
 - Object Model based on CDEs

- CDE Translator
- **Patient/Clinical/Population Information**
 - De-Identification/Re-identification Services (Priority 1)
 - Clinical Data Capture (Priority 2)
 - HL7 Interface Modules (Priority 3)
 - Interfaces to Existing Clinical Systems (Priority 3)
 - Cancer Registry Information (Priority 3)
 - Laboratory Data Interfaces (Priority 3)
 - Epidemiology Exposure Data (Priority 3)
- **Sample Array Tools** (All Priority 3)
 - Tissue Arrays and Sample Microarrays
 - Protein Arrays
- **Micro-dissection Tools** (All Priority 4)
 - Micro-dissection Modules
 - Micro-dissection Protocols and Images

Future Discussion

The Tissue Banks and Pathology Tools Workspace participants have mapped out several tasks to address in future group meetings.

- Review caBIG Tissue Bank and Pathology Tools Workspace documentation (e.g., Presentations)
- Formalize the Project Charter (Draft within two (2) Weeks)
- Share Database Schemas/Models
- Review existing CDEs and coordinate with the Vocabularies and Common Data Elements Workspace
- Share IRB, Privacy, and Specimen Ordering Forms (Within one (1) – two (2) Months)
- Survey other Cancer Centers
- Invite applicable vendors



Tissue Banks and Pathology Tools Breakout Session Attendees
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Facilitator: Sharon Settnek/SAIC

Cancer Center Name	Representative Name(s)
Arizona Cancer Center	Rob Klein
Dartmouth - Norris Cotton Cancer Center	Linda Titus-Ernstoff
Fox Chase Cancer Center	Andrew M. Balshen
Indiana University	Susanne Ragg Terry Vik
Johns Hopkins – Sidney Kimmel	Joe Califano
Northwestern University - RHLCCC	Dhugal Bedford
Thomas Jefferson University - Kimmel	Alejandra Ruiz Orrico
University of Alabama - Birmingham	William Grizzle
University of Pennsylvania	Michael Feldman
University of Pittsburgh	Sujin Kim
Washington University - Siteman	Mark Watson
Patient Advocates	Name(s)
Duke University	Barbara Parker
NCI Representatives	Name(s)
NCI	Everett Carpenter/DCCPS Fred Fridinger/Office of Communications Tracy Lugo/DCTD Michael Miller/Press Office Julie Schneider/OSPA
caBIG Project Team Coordinators	Name(s)
Booz Allen Hamilton	Kevin Vigilante Larnie Yuson

Workspace Working Group	Funded Members
Domain Workspace Working Group – Tissue Banks and Pathology Tools	<ul style="list-style-type: none"> • Virginia Commonwealth University – Massey • Jackson Laboratory • Johns Hopkins – Sidney Kimmel • Indiana University • University of Arizona • University of Alabama at Birmingham <i>Plus representatives from each Developer and Adopter site</i>